U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

_	ice	 -

- Framatome ANP, Inc. Lynchburg, Virginia Facility
- P.O. Box 11646
 Lynchburg, Virginia 24506-16465

- 3. License Number SNM-1168 Amendment 4
- 4. Expiration Date August 30, 2013
- 5. Docket No. 70-1201 Reference No.

- Byproduct Source, and/or Special Nuclear Material
- A. Uranium enriched (and enriched processed uranium containing plutonium and other transuranic isotopes) up to 5.1%U-235
- B. Uranium, natural or depleted
- C. Byproduct material
- D. Plutonium
- E. Californium-252
- F. Uranium enriched in U-235
- G. Americium-241
- H. Byproduct material and Plutonium

- 7. Chemical and/or Physical Form
- A. Uranium oxide pellet or pellet scrap
- B. Oxide, pellet or powder
- C. Sealed sources
- powder
- D. Sealed sources
- E. Sealed sources
- F. Any
- G. Sealed sources
- H. Contamination on/ within equipment, tooling, and components and waste

- Maximum amount that Licensee
 May Possess at Any One Time
 Under This License
- A. 15,000 kilograms of U-235
- B. 100,000 kilograms of uranium
- C. 10 curies with atomic numbers 3 to 83, inclusive
- D. 6 grams plutonium
- E. 4 milligrams of Californium-252
- F. 350 grams of U-235
- G. 5 curies Americium-241
- H. 1,000 curies, total

MAT	ERIAL	S LIC	ENSE
SUPPI	EMEN	TARY	SHEET

License Number

SNM-1168 - Amendment 4

Docket or Reference Number
70-1201

Renewal

- I. Any licensed material between atomic numbers 3-96
- I. Sealed sources
- I. 1 μCi total
- 9. Authorized place of use: The licensee's existing facilities at Lynchburg, Virginia. Material identified in Condition 6.H., 7.H., and 8.H., may be used at temporary job sites throughout the United States where the U.S. Nuclear Regulatory Commission retains jurisdiction for regulating the use of licensed materials.
- 10. This license shall be deemed to contain two sections: Safety Conditions and Safeguards Conditions. These sections are part of the license, and the licensee is subject to compliance with all listed conditions in each section.

FOR THE NUCLEAR REGULATORY COMMISSION

Date: 08/04/05

/RA

Gary S. Janosko, Chief Fuel Cycle Facilities Branch Division of Fuel Cycle Safety and Safeguards, NMSS Washington, DC 20555

MAT	[ERI	ALS	LICE	NSE
SUPP	LEMI	ENTA	RY S	SHEET

License Number
SNM-1168 - Amendment 4

Docket or Reference Number
70-1201

Renewal

SAFETY CONDITIONS

- S-1. Authorized use: For use in accordance with statements, representations, and conditions of the licensee's application dated March 28, 2002; and supplements dated November 8, 2002, July 18, July 30, August 4, and December 18, 2003, March 10, May 27, August 17, November 24, 2004, and August 2, 2005.
- S-2. The licensee shall inform the Regional Administrator, Region II, within 30 days if the State-permitting agency revokes the State-issued NPDES permit for the discharge of liquid effluents and shall inform the Regional Administrator, Region II, on a semiannual basis if the State-permitting agency supersedes, conditions, modifies, or otherwise nullifies the effectiveness of the State-issued NPDES permit for the discharge of liquid effluents.
- S-3. The licensee is hereby granted the exemptions and special authorizations in Section 1.5 of the application.

S-4. Notwithstanding Section 5.2d of the licensee's application, when determining subcriticality based on computer calculations, the k_{eff} of a system or process shall not exceed 0.87 for normal conditions or 0.95 for credible abnormal conditions, including bias and uncertainty.

Prior to modifying the nuclear criticality safety validation methodology (as defined in July 18, 2003 submittal), Framatome must perform an analysis to determine if the proposed methodology is more or less conservative than that described in the July 18, 2003 submittal. If the analysis shows that the new methodology is more, or equally, conservative, then Framatome must submit a detailed description of the new methodology, and a justification for the conservatism, 60 days prior to implementation. If the analysis determines the methodology to be less conservative, then Framatome must obtain a license amendment before implementation.

MATERIALS LICENSE SUPPLEMENTARY SHEET

License Number 4
SNM-1168 - Amendment 4

Docket or Reference Number 70-1201

Renewal

SAFEGUARDS CONDITIONS

Section 1.0 - Material Control & Accounting

- SG-1.1 The licensee shall follow Chapters 1.0 through 9.0 of its "Fundamental Nuclear Material Control Plan," Revision 17, dated November 10, 2004. This Plan may be further revised in accordance with, and pursuant to, the provisions of either 10 CFR 70.32(c) or 70.34.
- SG-1.2 Deleted by Amendment 2, September 2004
- SG-1.3 Notwithstanding the commitment, in Sections 2.1.2.1 and 7.1 of the Fundamental Nuclear Material Control (FNMC) Plan identified in Safeguard Condition SG-1.1, to complete and confirm shipper receiver differences within 60 days of receipt, the licensee will have an additional 60 days to fulfill the above-stated commitment relative to the six shipments identified in the August 2, 2005, application. The material from each shipment should not be processed until the shipper receiver difference evaluation for that shipment has been completed and satisfactorily resolved. This condition expires on October 7, 2005.

Section 2.0 - Physical Protection For SNM of Low Strategic Significance

SG-2.1 The licensee shall follow the physical protection plan entitled "Framatome ANP, Inc., Mt. Athos Road Facility Security Plan, dated July 13, 2004 (USNRC Materials License SNM-1168, Docket-70-1201;" and as it may be further revised in accordance with the provisions of 10 CFR 70.32(e).

Section 3.0 - International Safeguards

SG-3.1 The licensee shall follow Codes 1 through 6 of the Transitional Facility Attachment No. 6A dated December 4, 1995, to the US/IAEA Safeguards Agreement.
